

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) Sensor holder for arranging at least one rectangular-shaped sensor through a wall and a throughgoing opening of a housing and into communication with an inside of the housing, said sensor holder comprising a first and a second component, the first component being adapted to hold said rectangular-shaped sensor, the second component being provided with a first sealing surface and at least one throughgoing opening, ~~a portion of the sensor being adapted~~ the first and second components adapted to arrange a portion of the rectangular-shaped sensor to extend from the first component, through the opening in the second component and into communication with the inside of the housing, ~~an a rectangular-shaped~~ envelope surface of the throughgoing opening in the second component being adapted to be tightly sealed to the rectangular-shaped sensor when pressing together the first and second component of the sensor holder, and the first sealing surface of the second component being adapted to be tightly sealed to a second sealing surface provided in the housing when pressing together the sensor holder and the housing.

2. (Currently Amended) Sensor holder according to claim 1, whereby a portion of the throughgoing opening of the second component is ~~at least~~ frusto conical, the ~~at least frusto conical form~~ portion being widened towards a surface opposite the first sealing surface, and whereby first sealing means for sealing is provided in the ~~at least frusto conical form~~ portion of the throughgoing opening.

3. (Currently Amended) Sensor holder according to claim ~~[[1]]~~ 2, whereby second sealing means for sealing is provided between the first sealing surface and the second sealing surface.

4. (Currently Amended) Sensor holder according to claim ~~[[2]]~~ 3, whereby each of the first and second sealing means is a compressible sealing ring ~~such as an O-ring~~.

5. (Currently Amended) Sensor holder according to claim ~~[[1]]~~ 19, whereby the throughgoing opening in the second component of the sensor holder and the sensor have rectangular forms.

6. (Previously Presented) Sensor holder according to claim 1, whereby the throughgoing opening in the housing has an oval or circular form.

7. (Previously Presented) Sensor holder according to claim 3, whereby the first sealing surface being provided with a groove for receiving the second sealing means, the groove having an oval or circular form.

8. (Currently Amended) Sensor holder according to claim 1, whereby a first portion of the first component is provided with a groove adapted to receive at least a portion of the rectangular-shaped sensor.

9. (Currently Amended) Sensor holder according to claim 8, whereby the groove is rectangular and ~~has a depth less than the~~ is adapted to receive at least a portion of the rectangular-shaped sensor having a length between two opposite sides of the sensor ~~whereof greater than a depth of the groove when~~ one of said sides is facing the a bottom of the groove.

10. (Previously Presented) Sensor holder according to claim 8, whereby the first component further comprising a second portion, and comprising fastening means for clamping together the first and second portions.

11. (Previously Presented) Sensor holder according to claim 1, further comprising fastening means for tightening the first and second components to each other.

12. (Previously Presented) Sensor holder according to claim 1, further comprising fastening means for tightening the sensor holder to the housing.

13. (Previously Presented) Sensor holder according to claim 12, whereby the fastening means is a screw joint.

14. (Previously Presented) Sensor holder according to claim 2, wherein the throughgoing opening of the second component is conical.
15. (Previously Presented) Sensor holder according to claim 4, wherein the compressible sealing ring is an O-ring.
16. (Previously Presented) Sensor holder according to claim 10, wherein the fastening means is a screw joint.
17. (Previously Presented) Sensor holder according to claim 11, wherein the fastening means is a screw joint.
18. (New) Sensor holder according to claim 4, wherein said compressible sealing ring is an O-ring.
19. (New) Sensor and a sensor holder for arranging the sensor through a wall of a housing and into communication with an inside of the housing,
  - the sensor holder comprising a first component and a second component,
  - the first component holding the sensor,
  - the second component being provided with a first sealing surface and at least one throughgoing opening,
  - the sensor extending from the first component and through the opening in the second component,

an envelope surface of the throughgoing opening in the second component being tightly sealed to the sensor,

the first sealing surface of the second component adapted to be tightly sealed to a second sealing surface provided in the housing,

a portion of the throughgoing opening of the second component being frusto conical, the frusto conical portion being widened towards a surface opposite the first sealing surface, and

sealing means for sealing the sensor with the throughgoing opening provided in the frusto conical portion of the throughgoing opening.

20. (New) Polygonal-shaped sensor and a sensor holder for arranging the polygonal-shaped sensor through a wall of a housing and into communication with an inside of the housing,

the sensor holder comprising a first component and a second component,

the first component holding the polygonal-shaped sensor,

the second component being provided with a first sealing surface and at least one throughgoing opening,

the polygonal-shaped sensor extending from the first component and through the opening in the second component,

a polygonal-shaped envelope surface of the throughgoing opening in the second component being tightly sealed to the polygonal-shaped sensor, and

the first sealing surface of the second component adapted to be tightly sealed to a second sealing surface provided in the housing.